



# Whiskey Island Back Barrier Marsh Creation (TE-50)

## Project Status

**Approved Date:** 2004

**Project Area:** 1,038 acres

**Total Estimated Funding:** \$29.9 M

**Status:** Under Construction

**Project Type:** Barrier Island Restoration/Marsh Creation

## Location

Whiskey Island, one of five islands that make up the Isles Dernieres barrier island chain, is located 18 miles southwest of Cocodrie in Terrebonne Parish, Louisiana. The island is surrounded by Coupe Colin to the west, Whiskey Pass to the east, Lake Pelto, Caillou Boca, and Caillou Bay to the north, and the Gulf of Mexico to the south.

## Problems

Gulfside and bayside erosion has resulted in the narrowing of Whiskey Island (and the entire Isles Dernieres chain) as the two shorelines migrate toward each other, resulting in a 68 percent decrease in average width for the Isles Dernieres. Within 100 years, the entire subaerial portion of the Isles Dernieres barrier island system is expected to disappear except for small land fragments associated with the western end of Whiskey Island and the eastern end of East Island. However, some estimates project the Isles Dernieres will disappear much earlier. Other predictions suggest that, without restoration, Whiskey Island could become a subaqueous sand shoal by 2019. Another CWPPRA restoration project, Whiskey Island Restoration (TE-27), which included placement of dredge material, vegetative planting, and sand fencing, was completed in 2000.

## Restoration Strategy

The goal of the TE-50 project is to increase the longevity of the previously restored and natural portions of the island by increasing the island's width. Increasing the island's width will help to retain sand volume and elevation. Approximately 316 acres of back barrier intertidal marsh habitat, 5,800 linear feet of tidal creeks, three 1-acre tidal ponds and 13,000 linear feet of protective sand dune were created by semiconfined disposal and placement of dredged material. The sediment was dredged from a sediment source in the



Post construction photo of project area.

Gulf of Mexico near the island. The area will be planted with native marsh vegetation to colonize and protect the newly-placed marsh soil.

## Progress to Date

The CWPPRA Task Force approved funding for construction (phase 2) at the February 13, 2008 Task Force meeting. Construction began in April 2009 and initial construction was completed in October 2009. Because the newly created marsh needs time to settle to optimal elevation, vegetative plantings are not scheduled to occur until the spring/summer of 2010.

This project is on Project Priority List 13.

*For more project information, please contact:*



### Federal Sponsor:

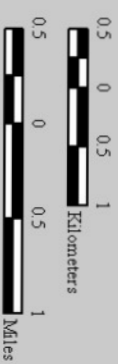
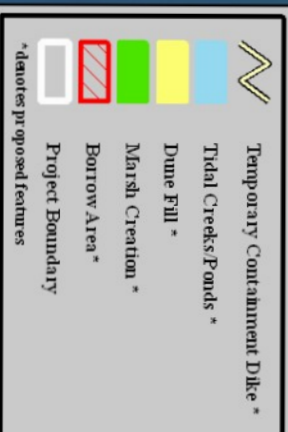
U.S. Environmental Protection Agency  
Dallas, TX  
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### Local Sponsor:

Office of Coastal Protection and Restoration  
Baton Rouge, La.  
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Map Produced by:  
U.S. Department of the Interior  
U.S. Geological Survey  
National Wetlands Research Center  
Coastal Restoration Field Station  
Baton Rouge, La.

Background Imagery:  
2005 Digital Orthophoto Quarter Quadrangle

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